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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/684,044	10/06/2000	Eilaz Babaev	24149-11	3047
7590	12/31/2003		EXAMINER	
George Likourezos Carter Deluca Farrell & Schmidt LLP 445 Broad Hollow Road Suite 225 Melville, NY 11747			THOMPSON, MICHAEL M	
			ART UNIT	PAPER NUMBER
			3763	
			DATE MAILED: 12/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

<i>(S)</i>	Application No.	Applicant(s)
	09/684,044	BABAEV, EILAZ
	Examiner Michael M. Thompson	Art Unit 3763

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

### Period for Reply

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) Responsive to communication(s) filed on 19 December 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) Claim(s) 1-43, 50-56 and 59 is/are pending in the application.
- 4a) Of the above claim(s) 2, 3, 5, 7-13, 15-24, 26-31, 33-39, 43-49 and 53-56 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1, 4, 6, 14, 21, 23, 25, 32, 40-42, 50-52 and 59 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All    b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

<ol style="list-style-type: none"> <li>1)<input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3)<input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____</li> </ol>	<ol style="list-style-type: none"> <li>4)<input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____</li> <li>5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6)<input type="checkbox"/> Other: _____</li> </ol>
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**DETAILED ACTION*****Information Disclosure Statement***

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892 or PTO-1449, they have not been considered.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4, 6, 14, 50-52, and 59 are rejected under 35 U.S.C. 102(b) as being anticipated by Durley, III. (4,085,893). Durley, III. teaches a nozzle for ultrasound production of a sprayed liquid comprising a main body (Figures 1, 7, and 10) wherein the main body is close to the free distal end of the ultrasound transducer with an opening or dispensing orifice is at the most distal end of the transducer. He teaches a valve (170) controlling the flow rate of the solution being delivered to the transducer, the main body being connected to at least one reservoir (column 11) for delivering an atomized solution.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 21, 23, 25, 32, and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Durley, III. Durley, III. teaches all of the limitations of the claims except for explicitly designating the nozzle is made of one piece and whether or not the nozzle is sterile, sterilizable, or disposable, a reservoir on top or on the side, or a rigidly connected reservoir. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to provide a rigidly connected reservoir or a reservoir on the top or side of the device because Applicant has not disclosed that positioning the reservoir on the top or side or providing a rigidly connected reservoir provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with a port on the bottom side or any side and a flexibly connected reservoir because the ability of the opening to convey liquid to the ultrasound transducer tip is not affected by the reservoirs location or rigidity. Therefore, it would have been an obvious matter of design choice to modify Durley, III. To obtain the invention as specified in the claims.

It would have further been obvious to one having ordinary skill in the art, at the time the invention was made to make the nozzle as one piece, since it has been held that one-piece construction, in place of separate elements fastened together, is a design consideration within the

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skill of the art. *In re Kohno*, 391 F.2d 959, 157 USPQ 275 (CCPA 1968); *In re Larson*, 340 F.2d 965, 144 USPQ 347 (CCPA 1965). Furthermore, it is well known that dental tools are expected to be sterile and sterilizable while the disposability of an apparatus is delegated to the practitioner.

### ***Double Patenting***

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1, 4, 6, 14, 21, 23, 25, 32, 40-42, 50-52 and 59 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 9-15; 13-20; 1-17, 19-22 of U.S. Patent No's. 6,569,099; 6,663,554; 6,601,581 respectively. Although the conflicting claims are not identical, they are not patentably distinct from each other because each of the patents claim similar subject matter to the instant application such as a nozzle for ultrasound production of a sprayed liquid comprising a main body wherein the main body is close to the free distal end of the ultrasound transducer with an opening or dispensing orifice is at the most distal end of the transducer. He teaches a valve controlling the flow rate of the solution being delivered to the transducer, the main body being connected to at least one reservoir (column 11) for delivering an atomized solution.

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### Contacts

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Michael Thompson whose telephone number is (703) 305-1619. The Examiner can normally be reached on Monday through Friday from 9 am to 5 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Primary, Brian Casler, can be reached on (703) 308-3552. The official fax phone number for submissions to the organization where this application or proceeding is assigned is (703) 872-9302. The official fax phone number for submission of After Final response is (703) 872-9303.

Michael M. Thompson

Patent Examiner

BRIAN L. CASLER  
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MT 

December 28, 2003